

FIG.1

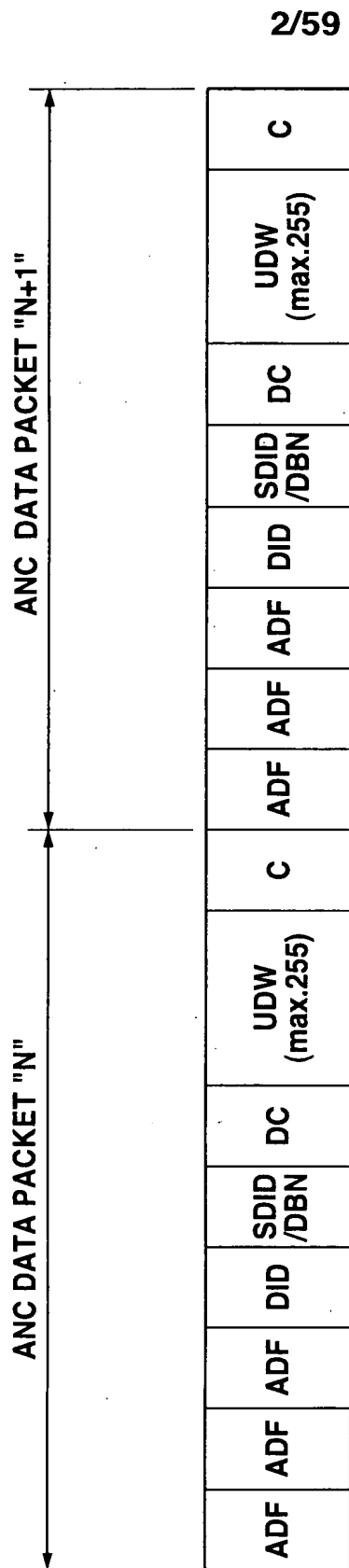


FIG.2

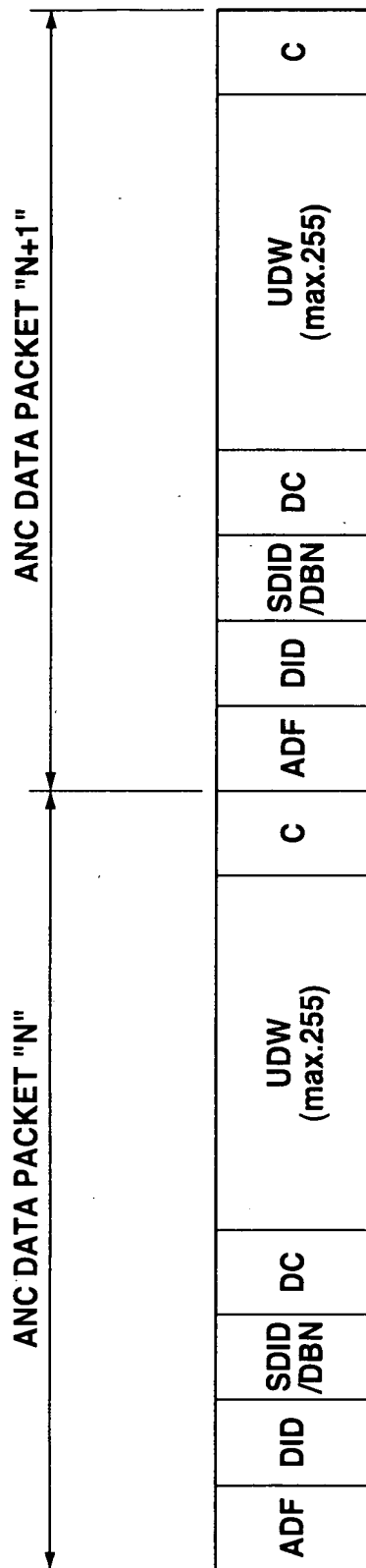


FIG.3

| SMPTE label |    |    |    |      |      |      |      | DESCRIPTION                           | Value Length   | Value Range |
|-------------|----|----|----|------|------|------|------|---------------------------------------|----------------|-------------|
| 01          | 00 | 00 | 00 | 00   | 00   | 00   | 00   | CLASS 1 ID AND LOCATOR                |                |             |
| 01          | 01 | 00 | 00 | 00   | 00   | 00   | 00   | GLOBALLY UNIQUE ID                    |                |             |
| 01          | 01 | 01 | xx | Null | Null | Null | Null | UMID VIDEO                            |                |             |
| 01          | 01 | 02 | xx | Null | Null | Null | Null | UMID AUDIO                            |                |             |
| 01          | 01 | 03 | xx | Null | Null | Null | Null | UMID DATA                             |                |             |
| 01          | 01 | 04 | xx | Null | Null | Null | Null | UMID SYSTEM                           |                |             |
| 01          | 01 | 10 | 00 | 00   | 00   | 00   | 00   | INTERNATIONAL BROADCASTING STATION ID |                |             |
| 01          | 01 | 10 | 01 | 00   | 00   | 00   | 00   | ORGANIZATION CATEGORY                 | 127 bytes max. |             |
| 01          | 01 | 10 | 03 | 00   | 00   | 00   | 00   | PROGRAM ID                            |                |             |
| 01          | 01 | 10 | 03 | 01   | 00   | 00   | 00   | UPID                                  |                |             |
| 01          | 01 | 10 | 03 | 02   | 00   | 00   | 00   | UPN                                   |                |             |
| 01          | 01 | 10 | 04 | 00   | 00   | 00   | 00   | MEDIUM ID                             |                |             |
| 01          | 01 | 10 | 04 | 01   | 00   | 00   | 00   | SAME AS LINE 64                       |                |             |
| 01          | 01 | 10 | 04 | 01   | 00   | 00   | 00   | EBU ID NO                             |                |             |
| 01          | 01 | 11 | 00 | 00   | 00   | 00   | 00   | ISO ID                                |                |             |
| 01          | 01 | 11 | 01 | 00   | 00   | 00   | 00   | ISO AUDIO VISUAL NO.                  |                |             |
| 01          | 01 | 11 | 02 | 00   | 00   | 00   | 00   | ISO BOOK NO.                          |                |             |
| 01          | 01 | 11 | 03 | 00   | 00   | 00   | 00   | ISO SERIAL NO.                        |                |             |
| 01          | 01 | 11 | 04 | 00   | 00   | 00   | 00   | ISO MUSICAL WORK CODE                 |                |             |
| 01          | 01 | 11 | 05 | 00   | 00   | 00   | 00   | ISO PRINTED MUSIC NO.                 |                |             |
| 01          | 01 | 11 | 06 | 00   | 00   | 00   | 00   | ISO COMMERCIAL ID                     |                |             |
| 01          | 01 | 11 | 07 | 00   | 00   | 00   | 00   | ISO RECORDING CODE                    |                |             |
| 01          | 01 | 11 | 08 | 00   | 00   | 00   | 00   | ISO REPORT NO.                        |                |             |
| 01          | 01 | 11 | 09 | 00   | 00   | 00   | 00   | ISO GLOSSARY                          |                |             |
| 01          | 01 | 11 | 0A | 00   | 00   | 00   | 00   | ISO TEXTUAL WORK CODE                 |                |             |
| 01          | 01 | 13 | 01 | 00   | 00   | 00   | 00   | DIGITAL OBJECT ID                     |                |             |
| 01          | 01 | 14 | 00 | 00   | 00   | 00   | 00   | COMPOSITE ID                          |                |             |
| 01          | 01 | 14 | 01 | 00   | 00   | 00   | 00   | SERIAL ITEM AND CONTRIBUTION ID       |                |             |
| 01          | 01 | 14 | 02 | 00   | 00   | 00   | 00   | BOOK ITEM AND COMPONENT ID            |                |             |
| 01          | 01 | 14 | 03 | 00   | 00   | 00   | 00   | AUDIO VISUAL ITEM AND COMPONENT ID    |                |             |
| 01          | 01 | 14 | 04 | 00   | 00   | 00   | 00   | DESTINATION ID                        |                |             |
| 01          | 01 | 15 | 00 | 00   | 00   | 00   | 00   | SAME AS LINE 66                       |                |             |
| 01          | 01 | 15 | 01 | 00   | 00   | 00   | 00   | INTERNET GLOBALLY UNIQUE ID           |                |             |

FIG.4

| SMPTE label |    |    |    |    |    |    |    | DESCRIPTION          | Value Length   | Value Range |
|-------------|----|----|----|----|----|----|----|----------------------|----------------|-------------|
| 01          | 03 | 02 | 02 | 00 | 00 | 00 | 00 | SLOT ID              | 4 bytes        |             |
| 01          | 03 | 02 | 03 | 00 | 00 | 00 | 00 | OBJECT TEXT ID       |                |             |
| 01          | 03 | 02 | 03 | 01 | 00 | 00 | 00 | GROUP NAME           | variable       |             |
| 01          | 03 | 02 | 03 | 02 | 00 | 00 | 00 | SLOT NAME            | variable       |             |
| 01          | 03 | 02 | 03 | 03 | 00 | 00 | 00 | OBJECT NAME          | variable       |             |
| 01          | 04 | 05 | 00 | 00 | 00 | 00 | 00 | LOCAL LOCATOR        |                |             |
| 01          | 04 | 05 | 01 | 00 | 00 | 00 | 00 | LOCAL MEDIUM LOCATOR |                |             |
| 01          | 04 | 05 | 01 | 01 | 00 | 00 | 00 | LOCAL FILE PASS      | 127 bytes max. |             |
| 01          | 04 | 05 | 03 | 00 | 00 | 00 | 00 | FILM LOCATOR         |                |             |
| 01          | 04 | 05 | 03 | 01 | 00 | 00 | 00 | EDGE CODE            | 32 chars max.  |             |
| 01          | 04 | 05 | 03 | 02 | 00 | 00 | 00 | FRAME CODE           | 32 chars max.  |             |
| 01          | 04 | 05 | 03 | 03 | 00 | 00 | 00 | KEY CODE             | 4 bytes        |             |
| 01          | 04 | 05 | 03 | 04 | 00 | 00 | 00 | Ink NO               | 32 chars max.  |             |
| 01          | 04 | 05 | 03 | 05 | 00 | 00 | 00 | SEGMENT START CODE   | 8 bytes        |             |
| 01          | 04 | 10 | 00 | 00 | 00 | 00 | 00 | PROXY LOCATOR        |                |             |
| 01          | 04 | 10 | 01 | 00 | 00 | 00 | 00 | PROXY TEXT           | 127 bytes max. |             |
| 01          | 04 | 10 | 02 | 00 | 00 | 00 | 00 | PROXY FRAME          | 127 bytes max. |             |
| 01          | 04 | 10 | 03 | 00 | 00 | 00 | 00 | PROXY SOUND          | 127 bytes max. |             |
| 01          | 04 | 10 | 04 | 00 | 00 | 00 | 00 | KEY DATA             | 127 bytes max. |             |
| 01          | 04 | 11 | 00 | 00 | 00 | 00 | 00 | HANDWRITE            |                |             |
| 01          | 05 | 11 | 01 | 00 | 00 | 00 | 00 | HANDWRITTEN NAME     | variable       |             |
| 01          | 05 | 01 | 00 | 00 | 00 | 00 | 00 | TITLE                |                |             |
| 01          | 05 | 01 | 01 | 00 | 00 | 00 | 00 | TITLE TYPE           | 127 bytes max. |             |
| 01          | 05 | 01 | 02 | 00 | 00 | 00 | 00 | MAIN TITLE           | 127 bytes max. |             |
| 01          | 05 | 01 | 03 | 00 | 00 | 00 | 00 | SUB TITLE            | 127 bytes max. |             |
| 01          | 05 | 01 | 04 | 00 | 00 | 00 | 00 | SERIES NO.           | 32 chars max.  |             |
| 01          | 05 | 01 | 05 | 00 | 00 | 00 | 00 | EPISODE NO.          | 32 chars max.  |             |
| 01          | 05 | 01 | 06 | 00 | 00 | 00 | 00 | SCENE NO.            | 32 chars max.  |             |
| 01          | 05 | 01 | 07 | 00 | 00 | 00 | 00 | TAKE NO.             | 2 bytes        |             |
| 01          | 10 | 00 | 00 | 00 | 00 | 00 | 00 | OWNER                |                |             |
| 01          | 10 | 01 | 00 | 00 | 00 | 00 | 00 | OWNER UNDER CISAC    |                |             |
| 01          | 10 | 01 | 01 | 00 | 00 | 00 | 00 | CONTACT PERSON       |                |             |
| 01          | 10 | 02 | 00 | 00 | 00 | 00 | 00 | ID UNDER AGICOA      |                |             |

FIG.5

| SMPTE label |    |    |    |    |    |    |    | DESCRIPTION                          | Value Length  | Value Range                      |
|-------------|----|----|----|----|----|----|----|--------------------------------------|---------------|----------------------------------|
| 04          | 01 | 01 | 00 | 00 | 00 | 00 | 00 | VIDEO'S BASIC CHARACTERISTIC         |               |                                  |
| 04          | 01 | 01 | 01 | 00 | 00 | 00 | 00 | VIDEO SOURCE DEVICES AND APPARATUSES | 32 chars max. |                                  |
| 04          | 01 | 01 | 02 | 00 | 00 | 00 | 00 | OE CONVERSION METHOD                 |               |                                  |
| 04          | 01 | 01 | 02 | 01 | 00 | 00 | 00 | GAMMA CHARACTERISTIC                 |               |                                  |
| 04          | 01 | 01 | 02 | 01 | 01 | 00 | 00 | GAMMA FORMULA                        | 4 chars max.  | See types dictionary             |
| 04          | 01 | 01 | 02 | 01 | 02 | 00 | 00 | GAMMA                                | 8 bytes       |                                  |
| 04          | 01 | 01 | 02 | 02 | 00 | 00 | 00 | BRIGHTNESS COMPUTATION               | 4 chars max.  | See types dictionary             |
| 04          | 01 | 01 | 02 | 03 | 00 | 00 | 00 | COLORIMETRI CODE                     | 4 chars max.  | See types dictionary             |
| 04          | 01 | 01 | 03 | 00 | 00 | 00 | 00 | SCANNING INFORMATION                 |               |                                  |
| 04          | 01 | 01 | 03 | 01 | 00 | 00 | 00 | COMPONENT SEQUENCE                   | 4 chars max.  | See types dictionary             |
| 04          | 01 | 01 | 03 | 02 | 00 | 00 | 00 | COLOR FRAME INDEX                    | 1 bytes       | 00h=default,01h-07h=field number |
| 04          | 01 | 01 | 03 | 03 | 00 | 00 | 00 | VERTICAL RATE                        | 1 bytes       | See types dictionary             |
| 04          | 01 | 01 | 03 | 04 | 00 | 00 | 00 | FRAME RATE                           | 1 bytes       | See types dictionary             |
| 04          | 01 | 01 | 04 | 00 | 00 | 00 | 00 | ASPECT RATIO                         | 1 bytes       | See types dictionary             |
| 04          | 01 | 01 | 00 | 01 | 00 | 00 | 00 | NO. OF LINES                         |               |                                  |
| 04          | 01 | 01 | 01 | 01 | 01 | 00 | 00 | TOTAL NO. OF LINES/FRAME             | 2 bytes       |                                  |
| 04          | 01 | 01 | 02 | 01 | 02 | 00 | 00 | ACTIVE LINES/FRAME                   | 2 bytes       |                                  |
| 04          | 01 | 01 | 03 | 01 | 03 | 00 | 00 | LEADING EDGE                         | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 01 | 04 | 00 | 00 | TRAILING EDGE                        | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 00 | 00 | 00 | ASPECT RATIO STANDARD                |               |                                  |
| 04          | 01 | 01 | 04 | 02 | 01 | 01 | 00 | ASPECT RATIO                         |               |                                  |
| 04          | 01 | 01 | 04 | 02 | 01 | 01 | 01 | IMAGE ASPECT RATIO                   | 1 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 01 | 01 | 02 | SAME AS ABOVE                        | 8 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 01 | 02 | 00 | ASPECT RATIO BY SENSOR               | 1 bytes       | See types dictionary             |
| 04          | 01 | 01 | 04 | 02 | 02 | 00 | 00 | STORAGE HEIGHT                       | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 03 | 00 | 00 | STORAGE WIDTH                        | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 04 | 00 | 00 | SAMPLE HEIGHT                        | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 05 | 00 | 00 | SAMPLE WIDTH                         | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 06 | 00 | 00 | SAMPLE X OFFSET                      | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 07 | 00 | 00 | SAMPLE Y OFFSET                      | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 08 | 00 | 00 | DISPLAY HEIGHT                       | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 09 | 00 | 00 | DISPLAY WIDTH                        | 4 bytes       |                                  |
| 04          | 01 | 01 | 04 | 02 | 0A | 00 | 00 | DISPLAY X OFFSET                     | 4 bytes       |                                  |

FIG.6

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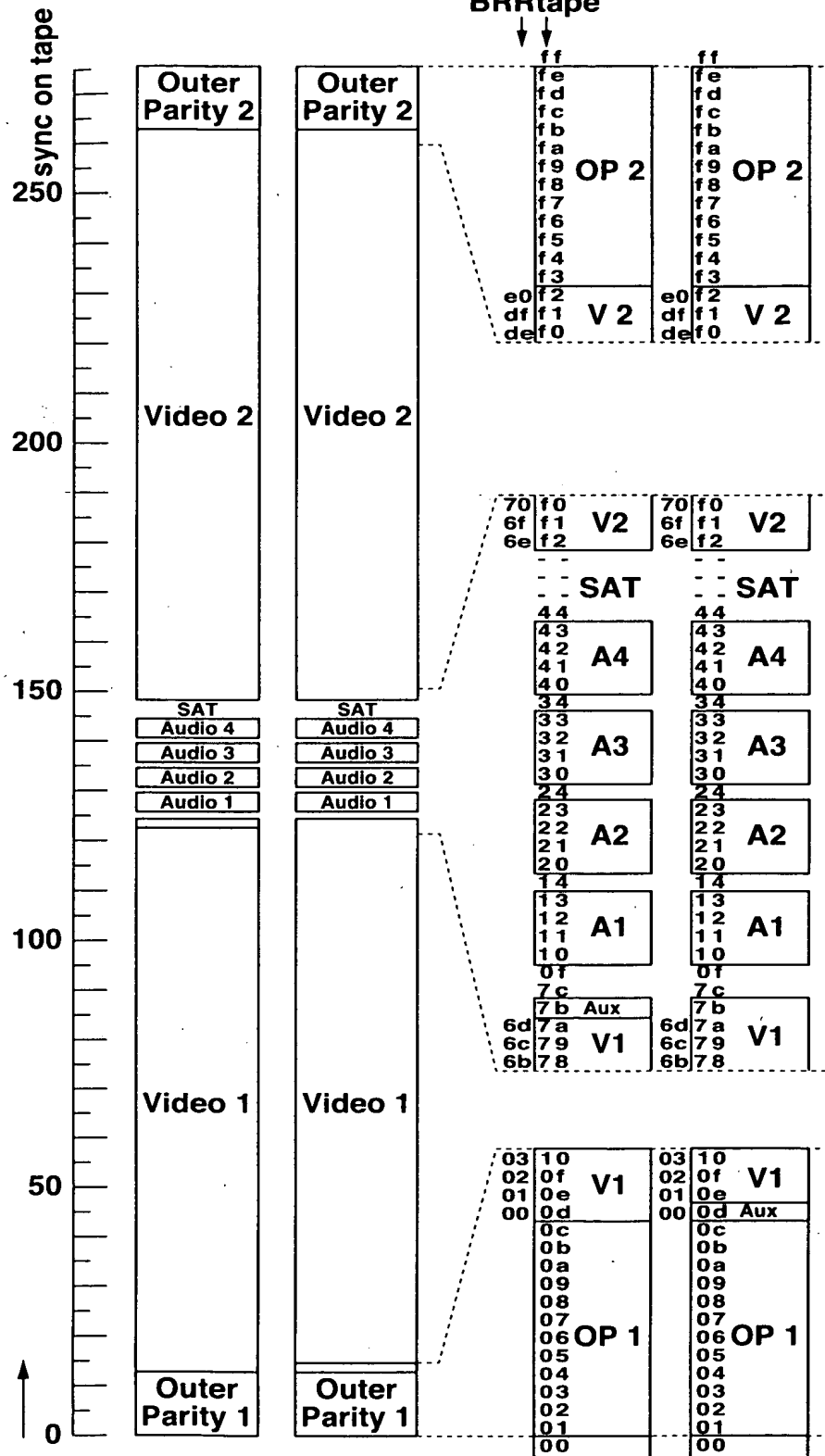


FIG.7

| Category | Data No.      | Byte Count | Assignment        |
|----------|---------------|------------|-------------------|
| 1        | D0 --> D33    | 34         | Activity Map      |
|          | D34 --> D35   | 2          | Reserved          |
| 2        | D36 --> D39   | 4          | VITC TC           |
|          | D40 --> D43   | 4          | VITC UB           |
|          | D44           | 1          | Check Sum of VITC |
|          | D45           | 1          | Reserved          |
| 3        | D46 --> D47   | 2          | REC ID            |
|          | D48 --> D51   | 4          | Reserved          |
| 4        | D52 --> D53   | 2          | Model Name        |
|          | D54 --> D56   | 3          | VTR Serial No.    |
|          | D57           | 1          | Destination       |
| 5        | D58 --> D61   | 4          | Date of Recording |
| 6        | D62           | 1          | VTR status        |
|          | D63 --> D67   | 5          | Reserved          |
| 7        | D68 --> D125  | 58         | Reserved          |
| 8        | D126 --> D169 | 44         | Meta-data         |
| 9        | D170 --> D215 | 46         | Reserved          |
| 10       | D216          | 1          | Not Used          |

FIG.8



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| Category | Assignment        | Data No.    | DESCRIPTION  |
|----------|-------------------|-------------|--|
| 2        | VITC TC           | D36 --> D39 | VITC TC data<br>D36:Frame D37:Second D38:Minute D39:Hour   |
|          | VITC UB           | D40 --> D43 | VITC TC data<br>D36:Frame D37:Second D38:Minute D39:Hour   |
|          | Check SUM         | D44         | VALUE RESULTED FROM INTEGRATION OF D36 TO D43<br>AND INVERSION OF INTEGRATED VALUE   |
| 3        | REC_ID            | D46,D47     | REC_ID=Sec+Min+Hour+0x0011<br>+(VALUE RESULTED FROM LEFTWARD SHIFT<br>BY 8 BITS OF FRAME COUNTER)  |
| 4        | Model Name        | D52,D53     |  |
|          | VTR Serial No.    | D54 --> D56 | Serial No.   |
|          | Destination       | D57         |  |
| 5        | Date of Recording | D58 --> D61 |  |
| 6        | VTR status        | D62         | INFORMATION ON RECORDING FREQUENCY<br>AND NUMBER OF LINES  |
|          |                   |             | B0:EXISTENCE OR ABSENCE OF 0.1% WITH<br>RESPECT TO Frame FREQUENCY<br>0:0.1% ON 1:0.1% OFF   |
|          |                   |             | B1:NUMBER OF VALID LINES<br>0:1035 1:1080  |
|          |                   |             | B2:SELECTION OF SDI OR SDTI<br>0:SDI 1:SDTI(DUB)   |
|          |                   |             | B4,B3:Frame FREQUENCIES<br>00:30Hz<br>01:25Hz<br>10:24Hz   |
|          |                   |             | B5:SELECTION OF Interlace OR PsF<br>0:Interlace 1:PsF  |
|          |                   |             | RELATION BETWEEN B5,B4,B3 AND B0<br>AND SYSTEM FREQUENCY<br>B76543210<br>XX000XX0 59.94i<br>XX000XX1 60i<br>XX001XX1 50i<br>XX100XX0 29.97PsF<br>XX100XX1 30PsF<br>XX101XX1 25PsF<br>XX110XX0 23.98PsF<br>XX110XX1 24PsF |

FIG.9

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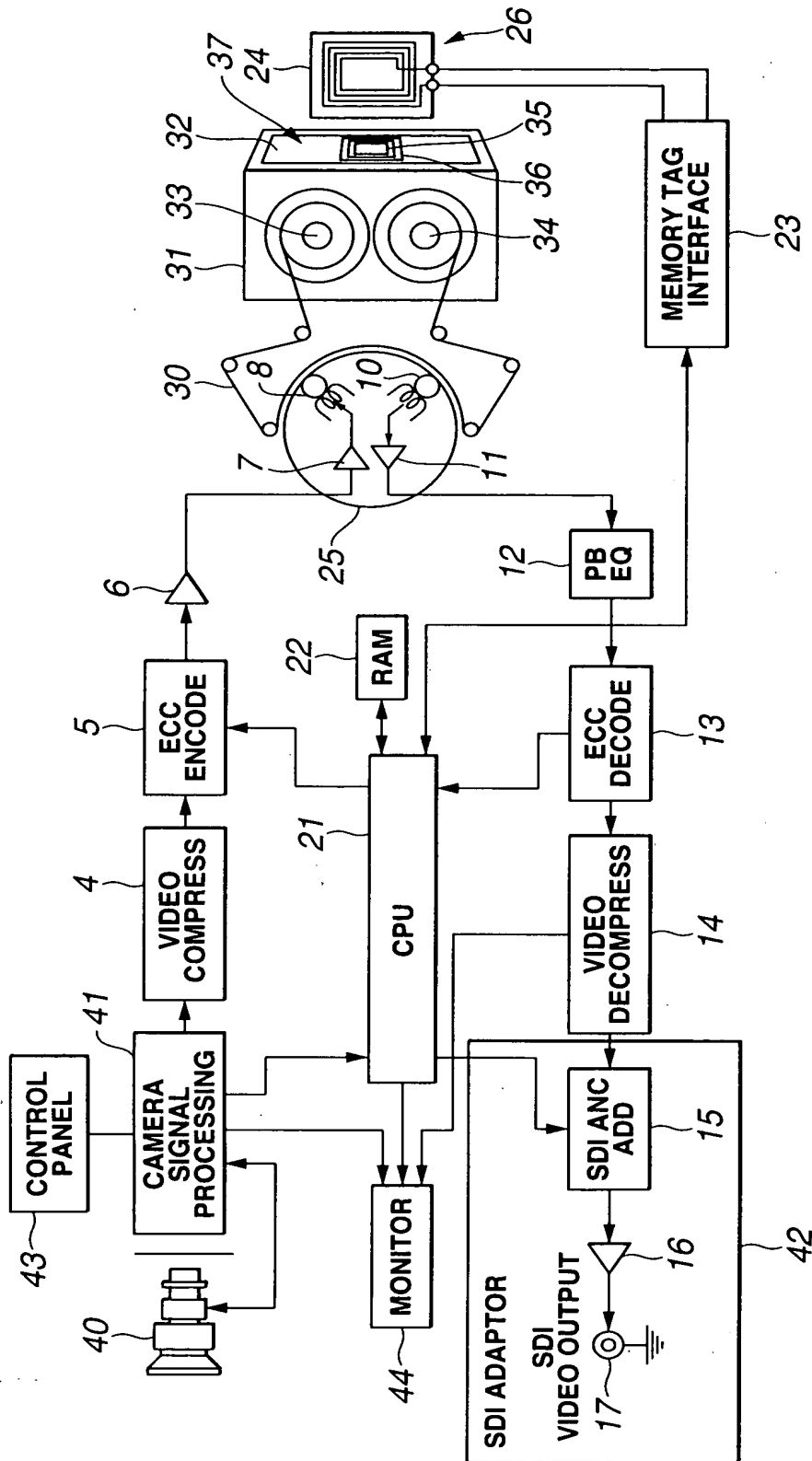


FIG.10

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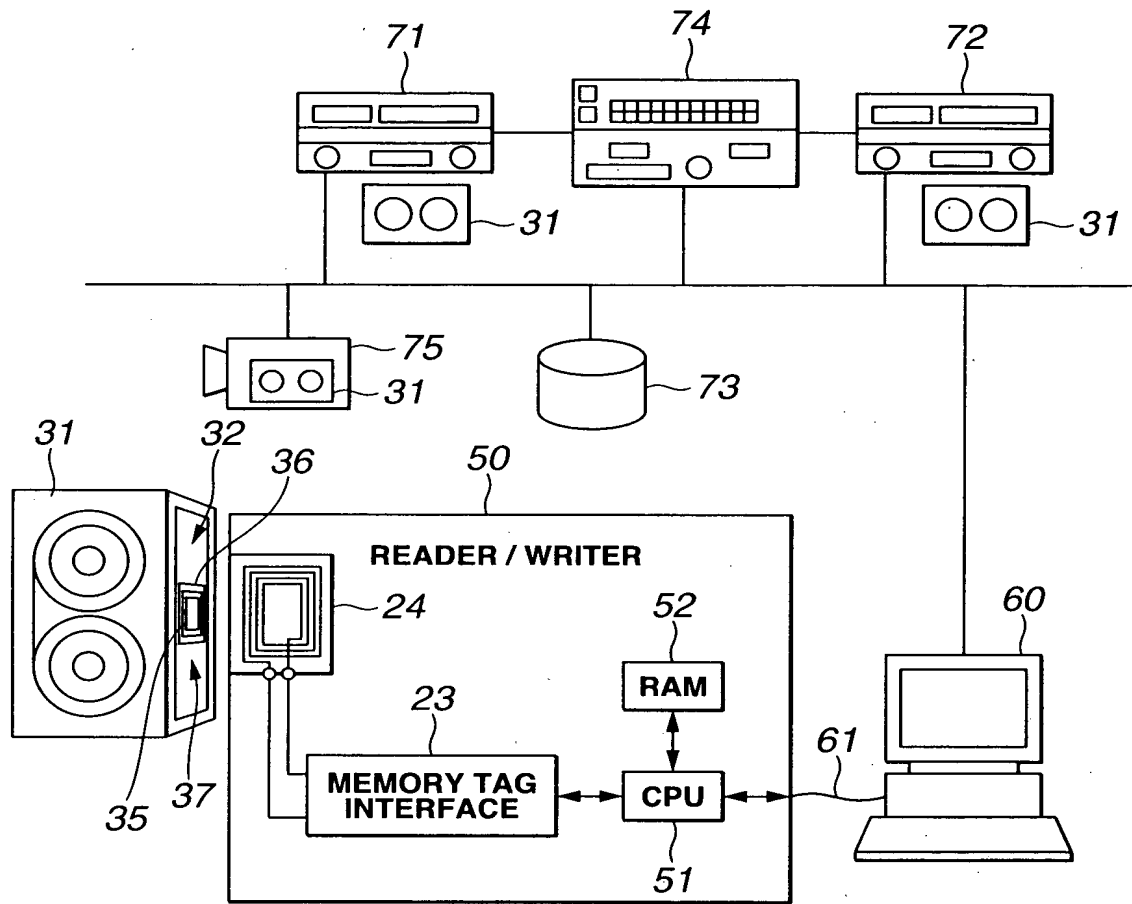


FIG.11

| Block No. | 0                       | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|-----------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0000      | Memory Management Table |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0001      | Manufacture ID Table    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0002      | Format Definition Table |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0003      | Common Area             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| nnnn      |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

FIG.12

| Offset<br>Address<br>(Byte) |                  |                                    |     |
|-----------------------------|------------------|------------------------------------|-----|
| 0                           | Memory_size      |                                    | 04h |
| 1                           |                  | (Hamming 8/4 code)                 | 00h |
| 2                           | Manufacture_code | MANUFACTURER                       | 03h |
| 3                           |                  | (Hamming 8/4 code)                 | 00h |
| 4                           | Version          | VERSION                            | 01h |
| 5                           | Lot_number       |                                    |     |
| 6                           |                  |                                    |     |
| 7                           | Reserve          | 00h                                | 00h |
| 8                           | Application_id   | APPLICATION (01h Read/Write Media) | 01h |
| 9                           |                  | (Hamming 8/4 code)                 |     |
| 10                          | Media_id         | LABEL SHAPE                        | 82h |
| 11                          |                  | (Hamming 8/4 code)                 | 00h |
| 12                          | Application_id   | Reserve                            | 00h |
| 13                          | Dependent Field  |                                    | 00h |
| 13                          |                  |                                    | 00h |
| 13                          |                  |                                    | 00h |

FIG.13

**FIG.14**

| Offset<br>Address | MSB<br>7 | 6      | 5 | 4 | 3 | 2 | 1 | LSB<br>0 |
|-------------------|----------|--------|---|---|---|---|---|----------|
| 5                 | <Day>    |        |   |   |   |   |   | <Month>  |
| 6                 | >        | <Year> |   |   |   |   |   | UD       |

FIG.15

| Offset Address (Byte) |                        |   |
|-----------------------|------------------------|---|
| 0                     | VIDEO SOURCE DEVICE ID | 2 DIGITS (BCD) (VIDEO SOURCE DEVICE ID AT MANUFACTURER) |
| 1                     | ID                     | HUNDRED THOUSANDS AND TEN THOUSANDS (BCD)               |
| 2                     | ID                     | THOUSANDS AND HUNDREDS (BCD)                            |
| 3                     | ID Reserve             | TENS AND ONES (BCD)                                     |
| 4                     | Reserve                | Reserve 00h   |
| 5                     | (FIXED VALUE)          | 7Fh,02h,00h,00h,01h,05h,20h,OFFh,OFFh,OFFh,OFFh         |
| 6                     |                        |   |
| 7                     |                        |   |
| 8                     |                        |   |
| 9                     |                        |   |
| 10                    |                        |   |
| 11                    |                        |   |
| 12                    |                        |   |
| 13                    |                        |   |
| 14                    |                        |   |
| 15                    |                        |   |

FIG.16



|          |            |       |       |                              |       |       |       |
|----------|------------|-------|-------|------------------------------|-------|-------|-------|
| Byte0    | Byte1      | Byte2 | Byte3 | Byte4                        | Byte5 | Byte6 | Byte7 |
| Media_ID | Lot_Number |       |       | ID (Block #0001 byte0~byte4) |       |       |       |

FIG.17

| MSB |    |    |    |    |    |    |    |  | LSB |
|-----|----|----|----|----|----|----|----|--|-----|
| P1  | D1 | P2 | D2 | P3 | D3 | P4 | D4 |  |     |

FIG.18

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$$P1 = 1 \oplus D1 \oplus D3 \oplus D4$$

$$P2 = 1 \oplus D1 \oplus D2 \oplus D4$$

$$P3 = 1 \oplus D1 \oplus D2 \oplus D3$$

$$P4 = 1 \oplus P1 \oplus D1 \oplus P2 \oplus D2 \oplus P3 \oplus D3 \oplus D4$$

 $\oplus$  EXCLUSIVE OR

FIG.19

| HEX. | HAMMING BASE 8/4 BINARY |
|------|-------------------------|
| 0    | 10101000                |
| 1    | 00001011                |
| 2    | 00100110                |
| 3    | 10000101                |
| 4    | 10010010                |
| 5    | 00110001                |
| 6    | 00011100                |
| 7    | 10111111                |
| 8    | 01000000                |
| 9    | 11100011                |
| A    | 11001110                |
| B    | 01101101                |
| C    | 01111010                |
| D    | 11011001                |
| E    | 11110100                |
| F    | 01010111                |

**FIG.20**

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| LOW | HIGH |
|-----|------|
| 04h | 00h  |

**FIG.21**

| Offset<br>Address<br>(Byte) |                                     |   |
|-----------------------------|-------------------------------------|---|
| 0                           | Keyword<br>Code                     | KEY CODE FOR REWRITING BLOCK NO. 0002<br>FFh AND FEh FIXED VALUES |
| 1                           |                                     |   |
| 2                           | Application<br>Name<br>&<br>Version | APPLICATION NAME  |
| 12                          |                                     |   |
| 13                          |                                     |   |
| 13                          | WriteProtect                        | 0:Write Enable 1:Write Disable                                    |
| 14                          | Country<br>Number                   | COUNTRY NO. (BCD) EX. UNDEFINED 00h JAPAN 00h USA 00h             |
| 15                          |                                     |   |

FIG.22

| Block No. | Address | 0             | 1              | 2 | 3  | 4             | 5         | 6 | 7 | 8 | 9      | A | B        | C | D | E | F |
|-----------|---------|---------------|----------------|---|----|---------------|-----------|---|---|---|--------|---|----------|---|---|---|---|
| #0003     | 0030    | Cassette ID   |                |   |    |               |           |   |   |   |        |   |          |   |   |   |   |
| #0004     | 0040    | > <           |                |   |    | Data Base Key |           |   |   |   |        |   |          |   |   |   |   |
| #0005     | 0050    |               |                |   |    | >             |           |   |   | < |        |   |          |   |   |   |   |
| #0006     | 0060    | Title         |                |   |    |               |           |   |   |   |        |   |          |   |   |   |   |
| #0007     | 0070    | Administrator |                |   |    |               |           |   |   |   |        |   |          |   |   |   |   |
| #0008     | 0080    | Serial No.    |                |   |    | Model Name    |           |   |   |   |        |   |          |   |   |   |   |
| #0009     | 0090    | Pointer       | EOSR_ID        |   | RS | RT            | EOS Point |   |   |   | Thread |   | Update   |   |   |   |   |
| #000A     | 00A0    | DataTOPP      | FAT Definition |   |    |               | Reserve   |   |   |   | FQ     |   | ADStatus |   |   |   |   |
| #000B     | 00B0    | Data Area     |                |   |    |               |           |   |   |   |        |   |          |   |   |   |   |
| ↑         | ↑       | ↑ ↑           |                |   |    |               |           |   |   |   |        |   |          |   |   |   |   |

**FIG. 23**

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| Byte0 | Byte1 | Byte2 | Byte3                                      |
|-------|-------|-------|--|
| LL    | LH    | HL    | HH<br>(NUMBER OF<br>SIGNIFICANT<br>DIGITS) |

**FIG.24**

| BYTE0      | BYTE1 |
|------------|-------|
| L          | H     |
| Max. FFFFh |       |

**FIG.25**



10070034-070902

10070034-070902  
107070034

|                  |          |         |             |                                 |   |         |      |
|------------------|----------|---------|-------------|---------------------------------|---|---------|------|
| MSB7             | 6        | 5       | 4           | 3                               | 2 | 1       | LSB0 |
| NOT YET MEASURED | TOP/ END | (N EOT) | END OF TAPE | CASSETTE SIZE<br>00:S,01:M,10:L |   | Reserve |      |

FIG.26

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| TAPE STATUS | Bit6 | Bit4 |
|-------------|------|------|
| TOP         | 0    | 1    |
| MIDDLE      | 0    | 0    |
| END         | 1    | 1    |

FIG.27

|        | MSB<br>7 | 6  | 5   | 4 | 3 | 2 | 1  | LSB<br>0 |
|--------|----------|----|-----|---|---|---|----|----------|
| DATA-1 | CF       | DF | 10F |   |   |   | 1F |          |
| DATA-2 |          |    | 10S |   |   |   | 1S |          |
| DATA-3 |          |    | 10M |   |   |   | 1M |          |
| DATA-4 |          |    | 10H |   |   |   | 1H |          |

FIG.28

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| BYTE0      | BYTE1 |
|------------|-------|
| L          | H     |
| Max. 7FFFh |       |

**FIG.29**

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| Block No. | Address | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | A  | B  | C  | D  | E  | F  |
|-----------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| #0009     | 0090    | 00 | 06 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 07 | 00 | 19 | 98 | 05 | 06 |
| #000A     | 00A0    | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| #000B     | 00B0    | 01 | 00 | 15 | 59 | 59 | 23 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |

FIG.30

30/59

| BYTE0      | BYTE1 |
|------------|-------|
| L          | H     |
| Max. FFFFh |       |

FIG.31

| Offset Address | MSB 7                           | 6 | 5 | 4 | 3 | 2 | 1 | LSB 0 |
|----------------|---------------------------------|---|---|---|---|---|---|-------|
| 0              | Reserved                        |   |   |   |   |   |   |       |
| 1              | Stored FAT Count (LOWER 8 bits) |   |   |   |   |   |   |       |
| 2              | Stored FAT Count (UPPER 8 bits) |   |   |   |   |   |   |       |

FIG.32

|                |         |                    |   |   |                           |   |      |
|----------------|---------|--------------------|---|---|---------------------------|---|------|
| MSB7           | 6       | 5                  | 4 | 3 | 2                         | 1 | LSB0 |
| Interrace Mode | Reserve | Recording Bit Rate |   |   | Recording Video Frequency |   |      |

FIG.33



| Offset<br>Address | MSB<br>7           | 6 | 5 | 4 | 3 | 2 | 1 | LSB<br>0           |
|-------------------|--------------------|---|---|---|---|---|---|--------------------|
| 0                 | AUDIO Status(CH-2) |   |   |   |   |   |   | AUDIO Status(CH-1) |
| 1                 | AUDIO Status(CH-4) |   |   |   |   |   |   | AUDIO Status(CH-3) |
| 2                 | AUDIO Status(CH-6) |   |   |   |   |   |   | AUDIO Status(CH-5) |
| 3                 | AUDIO Status(CH-8) |   |   |   |   |   |   | AUDIO Status(CH-7) |

FIG.34

| Block No. | Address | 0                    | 1                       | 2 | 3             | 4                   | 5 | 6 | 7                | 8                 | 9 | A | B | C | D | E | F |  |  |  |  |
|-----------|---------|----------------------|-------------------------|---|---------------|---------------------|---|---|------------------|-------------------|---|---|---|---|---|---|---|--|--|--|--|
| #000B     | 00B0    | <                    | Extended Area Format ID |   |               |                     |   |   |                  | Format<br>Version |   |   |   |   |   |   |   |  |  |  |  |
| #000C     | 00C0    | Reel Name            |                         |   | EDL File Name |                     |   |   |                  |                   |   |   |   |   |   |   |   |  |  |  |  |
| #000D     | 00D0    | Stocked<br>Floor No. | Stocked Shelf No.       |   |               | Stocked Step<br>No. |   |   | Stocked Position |                   |   |   |   |   |   |   |   |  |  |  |  |
| #000E     | 00E0    | Reserve              |                         |   |               |                     |   |   |                  |                   |   |   |   |   |   |   |   |  |  |  |  |
| #000F     | 00F0    | Reserve              |                         |   |               |                     |   |   |                  |                   |   |   |   |   |   |   |   |  |  |  |  |
| #0010     | 0100    | <                    |                         |   |               |                     |   |   |                  |                   |   |   |   |   |   |   |   |  |  |  |  |
| #0011     | 0110    | Comment              |                         |   |               |                     |   |   |                  |                   |   |   |   |   |   |   |   |  |  |  |  |
| #0012     | 0120    | >                    |                         |   |               |                     |   |   |                  |                   |   |   |   |   |   |   |   |  |  |  |  |
| #0013     | 0130    |                      |                         |   |               |                     |   |   |                  |                   |   |   |   |   |   |   |   |  |  |  |  |
| ↑         | ↑       | ↑ ↓                  |                         |   |               |                     |   |   |                  |                   |   |   |   |   |   |   |   |  |  |  |  |

FIG.35

|        |           |          |           |           |         |          |           |           |      |      |                        |        |                   |
|--------|-----------|----------|-----------|-----------|---------|----------|-----------|-----------|------|------|------------------------|--------|-------------------|
| 2      | 4         | 4        | 4         | 4         | 3       | 4        | 1         | 1         | 4    | 4    | 4                      | Max.53 | ARBITRARY (Bytes) |
| Status | CUE Point | IN Point | OUT Point | Scene No. | Cut No. | Take No. | Re-Served | Real Time | Date | UMID | Additional Information |        |                   |

Bit NOS.15 14 13,...,0

FIG.36

|        |          |  |  |
|--------|----------|--|--|
| Status | CUE DATA |  |  |
| 01h    | 00h      |  |  |

FIG.37



| Classification | Flow/Mode/<br>DataSize (UPPER) | DataSize<br>(LOWER) | Data |
|----------------|--------------------------------|---------------------|------|
|----------------|--------------------------------|---------------------|------|

FIG.39

|                            |  |      |      |                                |   |   |   |          |
|----------------------------|--|------|------|--------------------------------|---|---|---|----------|
|                            | MSB<br>7   | 6    | 5    | 4                              | 3 | 2 | 1 | LSB<br>0 |
| Classifi-<br>cation        | Classification+0   |      |      |                                |   |   |   |          |
| Classifi-<br>cation+N      |  |      |      |                                |   |   |   |          |
| Flow/Mode<br>/Data<br>B.C. | Delimiter<br>1:Limit   | Flow | Mode | Data Byte Count (UPPER 4 Bits) |   |   |   |          |
| Data<br>B.C.               | Data Byte Count (LOWER 8 Bits)   |      |      |                                |   |   |   |          |
|                            |  |      |      |                                |   |   |   |          |
|                            | Data0<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.<br>.< |      |      |                                |   |   |   |          |

FIG.40

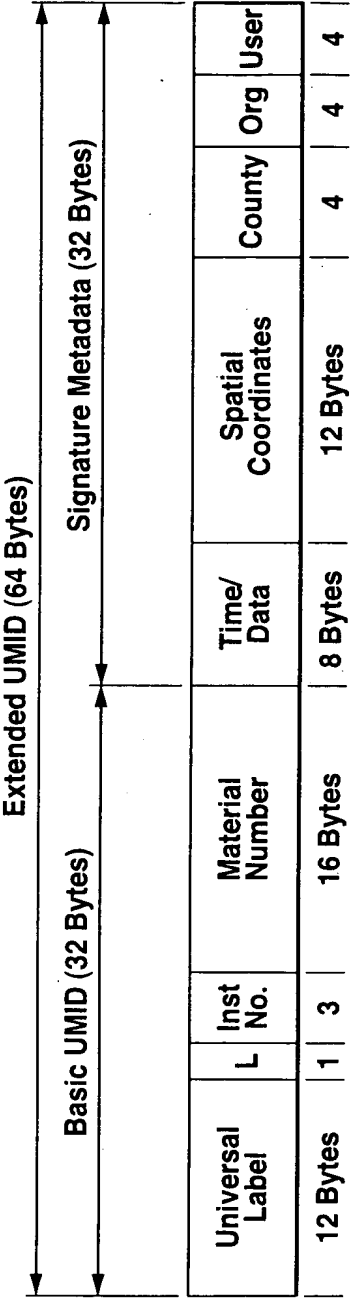


FIG.41

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| Time Snap(data omitted) |        |        |      | Rnd   |       |
|-------------------------|--------|--------|------|-------|-------|
| Frame                   | Second | Minute | Hour | Lower | Upper |

FIG.42



| Universal Label |      | Instance Number |     |    | Material Number (16 Bytes) |     |     |      |      |      |      |       |     |    |                        |     |     |     |     |     |
|-----------------|------|-----------------|-----|----|----------------------------|-----|-----|------|------|------|------|-------|-----|----|------------------------|-----|-----|-----|-----|-----|
|                 |      |                 |     |    | Time Snap (8 Bytes)        |     |     |      |      |      |      |       | Rnd |    | Machine Node (6 Bytes) |     |     |     |     |     |
|                 |      |                 |     |    | Frame                      | Sec | Min | Hour | MJDI | MJDm | MJDu | Tzone | Low | up | 1st                    | 2nd | 3rd | 4th | 5th | msd |
| 11th            | 12th | low             | mid | up |                            |     |     |      |      |      |      |       |     |    |                        |     |     |     |     |     |
| 0               | 1    | 2               | 3   | 4  | 5                          | 6   | 7   | 8    | 9    | 10   | 11   | 12    | 13  | 14 | 15                     | 16  | 17  | 18  | 19  | 20  |

FIG.43

| Basic UMID(21 Bytes) |                    |                      |  |     |                  |    |  |                    |      | Signature Metadata(32 Bytes) |           |          |  |                 |  |                   |              |    |  |    |  |
|----------------------|--------------------|----------------------|--|-----|------------------|----|--|--------------------|------|------------------------------|-----------|----------|--|-----------------|--|-------------------|--------------|----|--|----|--|
| U.L.<br>12,3         | Instance<br>Number | Material Number (16) |  |     |                  |    |  | Time/Data stamp(8) |      | Spatial coordinate(12)       |           |          |  | Country<br>Code |  | Organi-<br>zation | User<br>Code |    |  |    |  |
|                      |                    | Time Snap (8)        |  | Rnd | Machine Node (6) |    |  | Time               | Data | Altitude                     | Longitude | Latitude |  |                 |  |                   |              |    |  |    |  |
| 0                    |                    | 5                    |  | 10  |                  | 15 |  | 20                 |      | 25                           |           | 30       |  | 35              |  | 40                |              | 45 |  | 50 |  |

**FIG. 44**

FIG.45A

01 84 00 30 59 23 04 11 00 00 00 29 52 59 10 95 44 05 97 DF 3D 89 27 00 02 04 43

FLAG

CUE

UMID

FIG.45B

01 82 00 45 59 23

12 00 00 11

2E D5

|                         |                         |        |   |
|-------------------------|-------------------------|--------|---|
| 06 0E 2B 34 01 01 01 01 | 01 05 01 02 00 00 00 00 | 0D     | 54 68 65 20 54 65 6C 65 2D 46 69 6C 65                      |
| DECLARATION             | MAIN TITLE CODE         | LENGTH | 13 ASCII CHARACTERS<br>REPRESENTING TITLE ("The Tele-File") |

FIG.46

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|       |              |               |          |                         |        |   |
|-------|--------------|---------------|----------|-------------------------|--------|---|
| 06 10 | 00 00 00 01  | 00 00 05 01   | 4D 80 16 | 01 05 01 02 00 00 00 00 | 0D     | 54 68 65 20 54 65 6C 65 2D 46 69 6C 65                      |
| FLAG  | In 01:00:... | Out 01:05:... | HEADER   | MAIN TITLE CODE         | LENGTH | 13 ASCII CHARACTERS<br>REPRESENTING TITLE ("The Tele-File") |

FIG.47

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 01 | 05 | 01 | 02 | 00 | 00 | 00 | 00 | 00 | 0D | 54 | 68 | 65 | 20 | 54 | 65 | 6C | 65 | 2D | 46 | 69 | 6C | 65 |
| 01 | 05 | 01 | 03 | 00 | 00 | 00 | 00 | 00 | 0B | 41 | 70 | 70 | 6C | 69 | 63 | 61 | 74 | 69 | 6F | 6E |    |    |
| 04 | 01 | 01 | 03 | 04 | 00 | 00 | 00 | 00 | 01 | 1E |    |    |    |    |    |    |    |    |    |    |    |    |

FIG.48

|       |             |          |                         |                    |
|-------|-------------|----------|-------------------------|--------------------|
| 01 10 | 00 30 58 00 | 4D 80 0B | 04 01 01 03 04 00 00 00 | 01 1E              |
| 01 10 | 00 00 00 01 | 4D 80 16 | 01 05 01 02 00 00 00 00 | 0D 54 68 65 20 ... |
| 01 10 | 00 00 05 01 | 4D 80 14 | 01 05 01 03 00 00 00 00 | 0B 41 70 70 6C ... |
| 01 00 | 00 00 10 01 |          |                         |                    |

FIG.49

| Flag1 [bit2,1] |              | Universal Label(12 Bytes) |     |     |     |     |     |     |     |     |     |     |     | L Instance |   |   | Time Snap(8 Bytes) |   |   |   |   |   |   |   | Machine Node(6 Bytes) |   |   |   |   |   | Signature Meta |   |   |   |
|----------------|--------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|---|---|--------------------|---|---|---|---|---|---|---|-----------------------|---|---|---|---|---|----------------|---|---|---|
| Least [01]     | #06#0A#2B#34 | #01                       | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | p          | p | p | p                  | p | p | p | p | p | p | p | p                     | p | p | p | p | p | p              | p | p | p |
|                |              |                           |     |     |     |     |     |     |     |     |     |     |     |            |   |   |                    |   |   |   |   |   |   |   |                       |   |   |   |   |   |                |   |   |   |
|                |              |                           |     |     |     |     |     |     |     |     |     |     |     |            |   |   |                    |   |   |   |   |   |   |   |                       |   |   |   |   |   |                |   |   |   |
| Basic [10]     | #06#0A#2B#34 | #01                       | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #13        |   |   |                    |   |   |   |   |   |   |   |                       |   |   |   |   |   |                |   |   |   |
| extended [11]  | #06#0A#2B#34 | #01                       | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #01 | #33        |   |   |                    |   |   |   |   |   |   |   |                       |   |   |   |   |   |                |   |   |   |

FIG.50



|     |     |     |     |     |  |
|-----|-----|-----|-----|-----|--|
| 3FF | 000 | 000 | 2D8 | ... | EAV  |
| 000 | 3FF | 2F0 | 101 | 120 | ...ANC for Meta-data, data count=32            |
| 206 | 10A | 22B | 134 | 101 | 101 101 101 101 101 104 211 ...universal label |
| 113 |     |     |     |     | ...length                                      |
| 200 | 200 | 200 |     |     | ...instance                                    |
| 129 | 152 | 259 | 110 | 295 | 244 205 197 ...time snap                       |
| 1DF | 13D |     |     |     | ...random                                      |
| 189 | 227 | 200 | 102 | 104 | 143 ...machine node                            |

FIG.51

[illegible]

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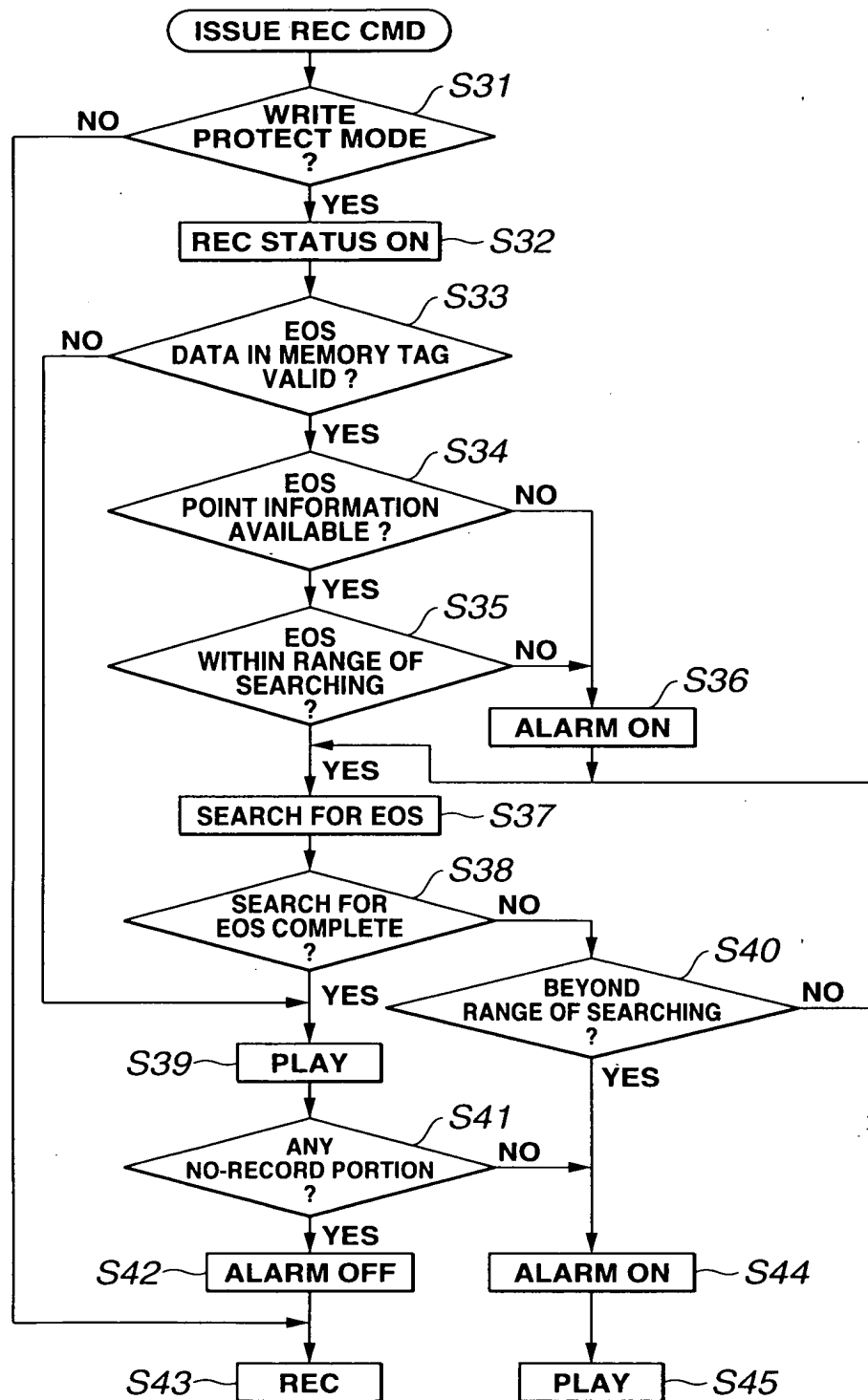


FIG.53

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FIG.54A

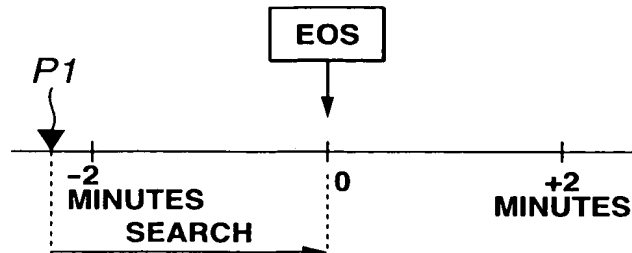


FIG.54B

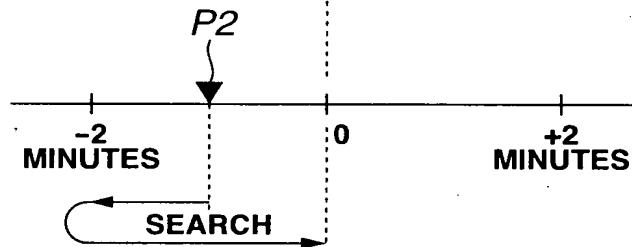


FIG.54C

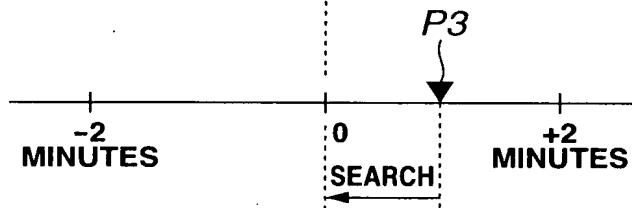
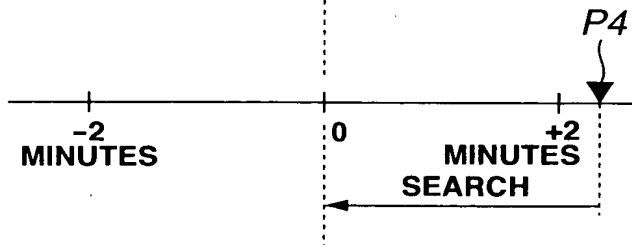


FIG.54D



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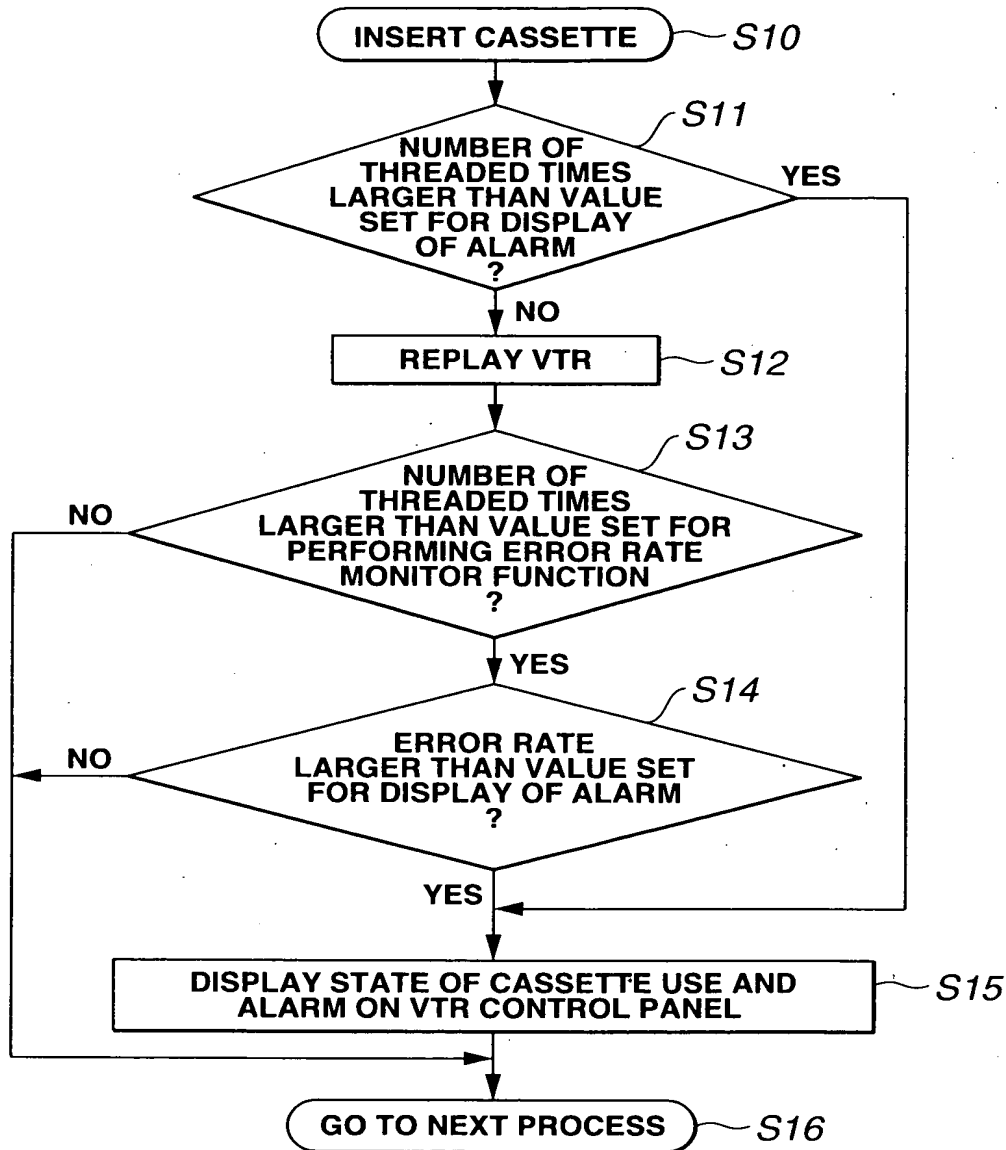
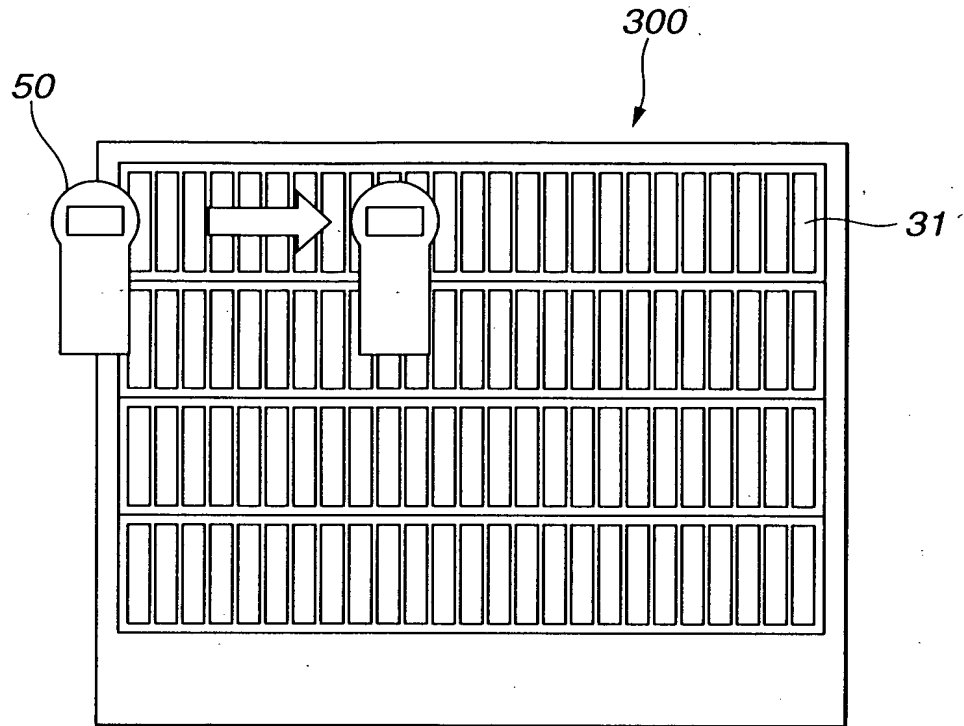


FIG.55

| TAPE ID   | TITLE  | INTENDED USE | NUMBER OF THREADED TIMES | JUDGE     | COMMENT                      |
|-----------|--|--------------|--------------------------|-----------|------------------------------|
| HD-10001  | FROM SOUTHERN COUNTRY                          | LIBRARY      | 6                        | EXCELLENT |                              |
| D2-22029  | OSAKA KIN-YU-DO                                | DRAMA        | 20                       | FAIR      |                              |
| SX-23478  | "MIMI-NO-KUNI" WORDS OF PRIME MINISTER HAYASHI | SHARING      | 100                      | NOT FAIR  | TO BE VOIDED ON JUNE 19,2000 |
| IMX-67870 | K2 GRAND PRIX                                  | SHARING      | 20                       | GOOD      |                              |

FIG.56

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**FIG.57**

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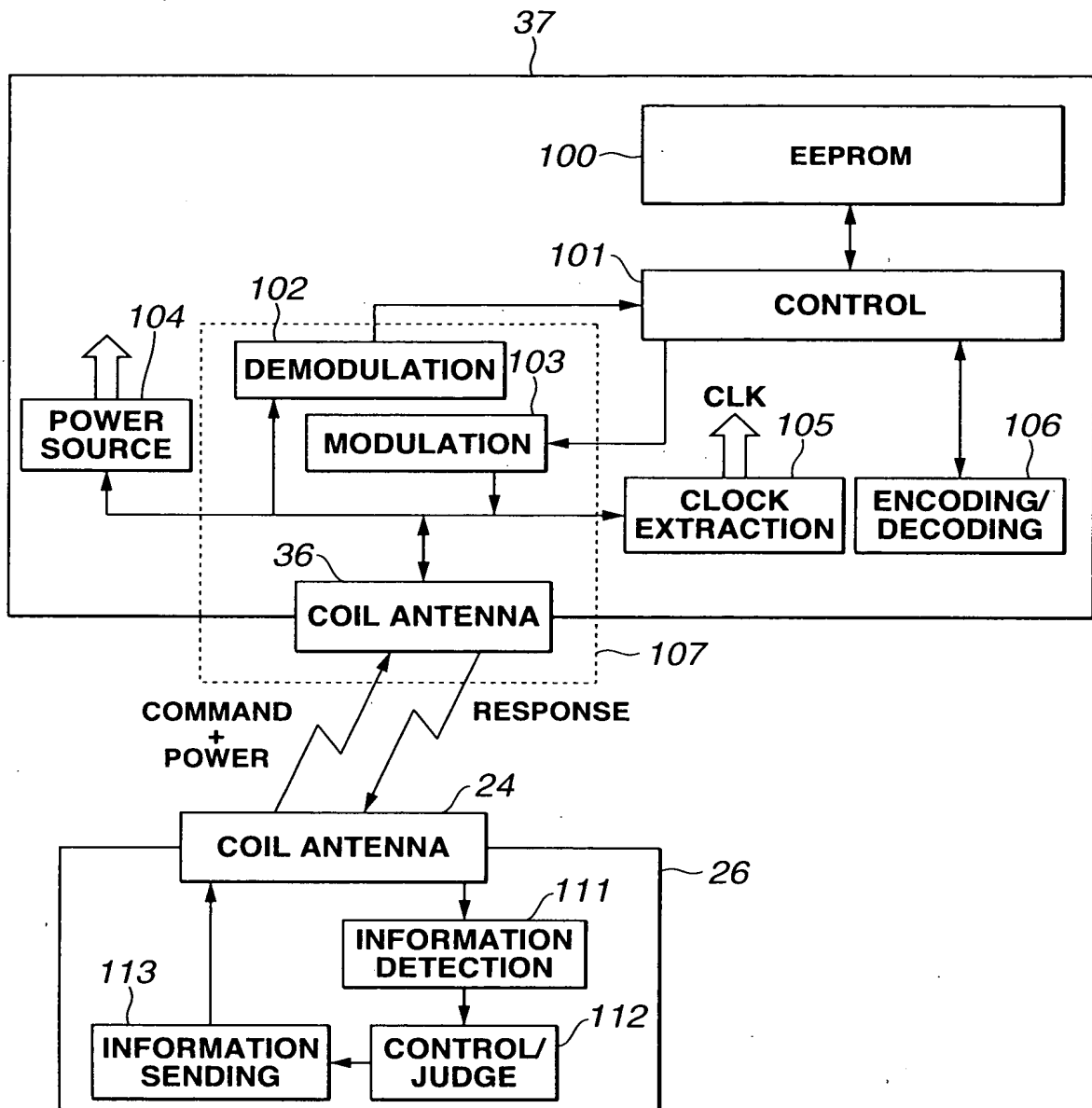


FIG.58



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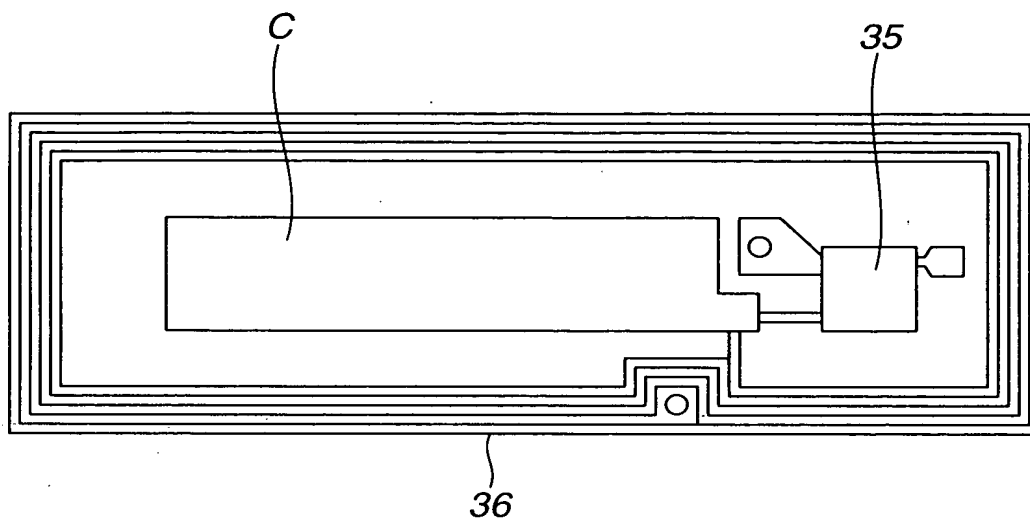


FIG. 59

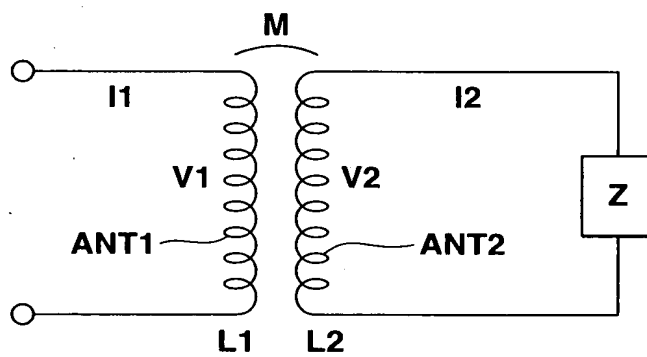
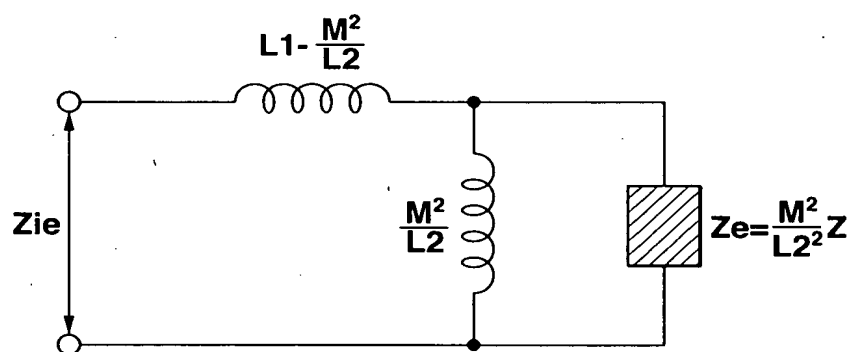


FIG. 60

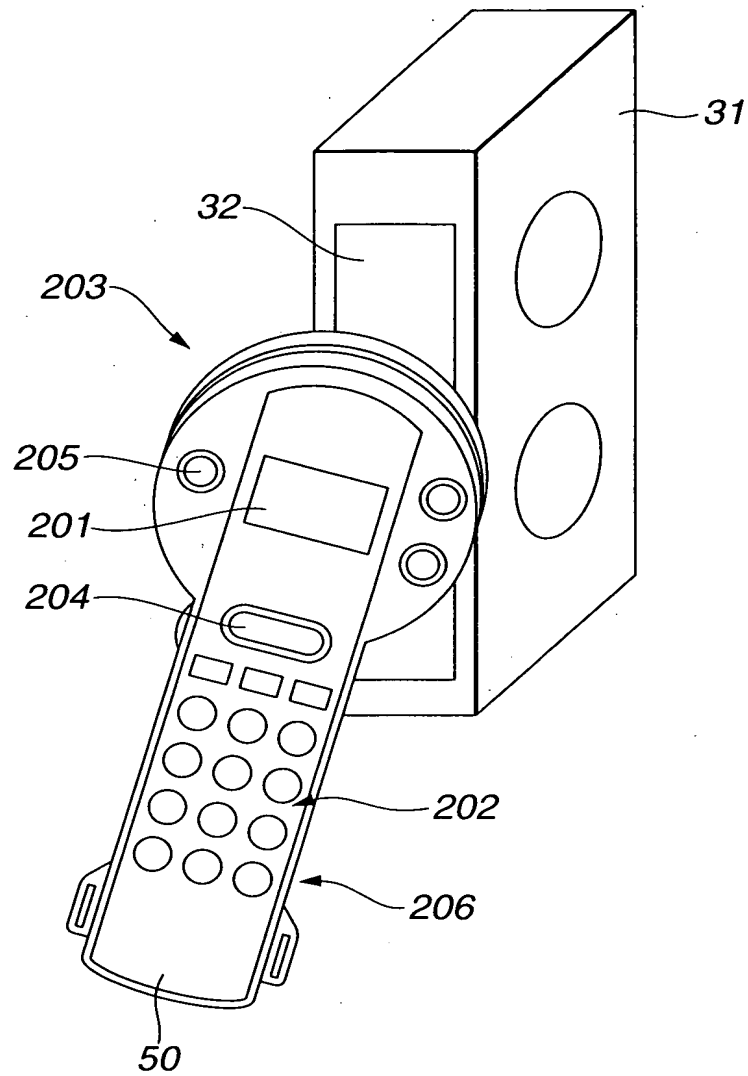
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$$Z_{ie} = j\omega\left(L1 - \frac{M^2}{L2}\right) + \frac{1}{\frac{j\omega M^2}{L2} + \frac{L2^2}{M^2 Z}}$$

FIG.61

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**FIG. 62**